

WHAT IS CLAIMED IS:

1. A Bluetooth headset for wirelessly communicating with a communication terminal having a Bluetooth function,  
5 comprising:
  - a main body having a power on/off switch and a speaker;
  - a boom being pivotably mounted to the main body and one end of which has a microphone attached thereon;
  - a boom switch being switched on or off according to an  
10 open or closed state of the boom;
  - a controller being built in the main body, for detecting an open or closed state of the boom according to an on/off state of the boom switch on condition that the power on/off switch is switched on, setting an incoming call indication mode  
15 to a ringing or melody mode if the boom is opened from the main body, setting an incoming call indication mode to a vibration mode if the boom is closed to the main body, and performing an incoming call indication operation at a predetermined incoming call indication mode upon receiving an incoming call signal  
20 from the outside; and
  - a vibration motor being built in the main body and vibrated upon receiving a control signal from the controller.

2. The Bluetooth headset as set forth in claim 1, wherein  
25 the boom switch is switched on when the boom is opened from the

main body, or is switched off when the boom is closed to the main body.

3. The Bluetooth headset as set forth in claim 1, wherein  
5 the boom switch is switched off when the boom is opened from the main body, or is switched on when the boom is closed to the main body.

4. The Bluetooth headset as set forth in claim 1, wherein  
10 the controller counts a predetermined time during which a ringing or melody sound is generated when the incoming call indication mode is previously set to the ringing or melody mode, at the same time controls an output of the ringing or melody sound generated from the speaker, and drives the  
15 vibration motor if the counted time is longer than a predetermined first time.

5. The Bluetooth headset as set forth in claim 1, wherein  
the controller counts a predetermined time during which a  
20 ringing or melody sound is generated when the incoming call indication mode is previously set to the ringing or melody mode, at the same time controls an output of the ringing or melody sound generated from the speaker, and drives the vibration motor for a predetermined time during which the

incoming call signal is received if the counted time is longer than a predetermined first time.

6. A method for informing a user of an incoming call  
5 signal in a Bluetooth headset wirelessly communicating a communication terminal having a Bluetooth function, comprising the steps of:

a) if the Bluetooth headset is powered on, detecting an open or closed state of a boom having a microphone;

10 b) if the boom is opened from a main body contained in the Bluetooth headset, setting an incoming call indication mode to a ringing or melody mode;

c) if the boom is closed to the main body, setting an incoming call indication mode to a vibration mode; and

15 d) upon receiving an incoming call signal, informing a user of the incoming call signal at a predetermined incoming call indication mode.

7. The method as set forth in claim 6, wherein the step  
20 (d) includes the steps of:

d1) upon receiving the incoming signal on condition that the incoming call indication mode is set to the ringing or melody mode, generating a ringing or melody sound for a predetermined time; and

d2) performing the vibration mode after the lapse of the predetermined time.

8. The method as set forth in claim 7, wherein the step  
5 (d) further includes the step of:

d3) if the incoming call signal is not received while generating the ringing or melody sound in the ringing or melody mode, terminating an incoming call indication operation.

10 9. The method as set forth in claim 7, wherein the step  
(d) further includes the step of:

d4) if the incoming call signal is not received in the vibration mode, terminating an incoming call indication operation.